Submit 1 Copy To Appropriate District Office	State of New Mexico		Form C-103		
strict I – (575) 393-6161 Energy, Minerals and Natural Resources		1	Revised August 1, 2011		
#625 N French Dr , Hobbs, NM 88240 District II - (575) 748-1283 811 S. First St., Artesia, NM 88210 District III - (505) 334-6178 1220 South St. Francis Dr		W 30	ELL API NO. -025-37835		
811 S. First St., Artesia, NM 88210 OIL CONSERVATION DIVISION		DIVISION $\frac{30}{5}$	Indicate Type of Lease		
District III – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 8741 JUL 1 3 2012 South St. Francis Dr. District IV – (505) 476-3460 Santa Fe, NM 87505		cis Dr.	STATE FEE		
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 8/	505 6.	State Oil & Gas Lease No.		
87505	CFN/ED				
SUNDRY NOTIC (DO NOT USE THIS FORM FOR PROPOS	LES AND REPORTS ON WELLS ALS TO DRILL OR TO DEEPEN OR PLU		Lease Name or Unit Agreement Name M. HENDERSON		
DIFFERENT RESERVOIR. USE "APPLICATION OF THE PROPERTY OF THE P			M. HENDERSON		
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well 🔲 Other	8.	Well Number 22		
2. Name of Operator		9.	9. OGRID Number 4323		
CHEVRON U.S.A. INC. 3. Address of Operator		10	Pool name or Wildcat		
15 SMITH ROAD, MIDLAND, TE	XAS 79705		ENROSE SKELLY GRAYBURG		
4. Well Location			· ·		
Unit Letter A: 330 feet from	om the NORTH line and 1310 fee	et from the EAST line	6		
Section 30	Township 21-S Range		M County LEA		
	11. Elevation (Show whether DR,	RKB, RT, GR, etc.)			
			· ·		
12. Check A	ppropriate Box to Indicate Na	ature of Notice, Rep	oort or Other Data		
NOTICE OF IN	ΓΕΝΤΙΟΝ ΤΟ:	SUBSE	QUENT REPORT OF:		
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WOR			☐ ALTERING CASING ☐		
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLIN			
PULL OR ALTER CASING DOWNHOLE COMMINGLE	MULTIPLE COMPL	CASING/CEMENT JO	DR []		
DOVINIOLE GOIMMINGLE					
OTHER: INTENT TO SONIC HAM		OTHER			
			ve pertinent dates, including estimated date		
of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.					
CHEVRON II S A INC INTEN	DS TO SONIC HAMMER, ACID	NZE & SCALE SOLIE	EZE THE SUBJECT WELL		
CHEVRON C.B.A. INC. INTEN	DS TO SOME HAMMER, ACID	AZE, & SCALE SQUE	EZE THE SOBJECT WELL.		
PLEASE FIND ATTACHED, T	HE INTENDED PROCEDURE, W	ELLBORE DIAGRAN	Л, & C-144 INFO.		
Spud Date:	Rig Release Da	te:			
I hereby certify that the information above is true and complete to the best of my knowledge and belief.					
$\mathcal{O} \setminus \mathcal{O} \setminus \mathcal{O} \setminus \mathcal{O}$					
SIGNATURE SULLE VILLE REGULATORY SPECIALIST DATE: 07-11-2012					
Type or print name: DENISE PINKE	ERTON E-mail address: leake	jd@chevron.com	PHONE: 432-687-7375		
APPROVED BY	TITLE		DATE 7-16-2012		
Conditions of Approval (if any):	1	71			
, ,	,				

V.M. Henderson #22 – [30-025-37835]
Penrose Skelly field
T21S, R37E, Section 30
N 32° 27' 22.1034", W -103° 11' 50.82" (NAD27)
Job: Sonic Hammer, Acidize & Scale Squeeze

This procedure is meant to be followed. It is up to the WSM, Remedial Engineer and Production Engineer to make the decisions necessary to do SAFELY what is best for the well. In the extent that this procedure does not reflect actual operations, please contact RE, PE and Superintendent for possible MOC.

Procedure:

- 1. MI & RU Workover unit.
- 2. Verify that well does not have pressure/flow. If well has pressure, record tubing and casing pressures on WellView report. Bleed down well; if necessary, kill with cut brine fluid (8.6 ppg).
- > Caliper elevators and tubular EACH DAY prior to handling tubing/rods/tools. Note in JSA when and what items are callipered within the task step that includes that work.
- 3. Unseat pump. POOH with rods & pump. Examine rod string for paraffin/corrosion. Do not hot water, unless significant paraffin is seen. ND wellhead, unset TAC, NU BOP.
- 4. POOH & LD 1 joint, PU 5-1/2" packer and set @ ~ 25'. Close and test BOP pipe rams to 250psi (low)/ 500psi (high). Record testing pressures on WellView report. Release and LD packer.
- PU tubing and run back in hole to tag for fill.
 Depths: (TAC 3,544', Bottom Perfs 3,937', EOT 4,121', PBTD 4,259')
- 6. RU Scanners and POOH while scanning all 2-7/8" 6.5# J-55 production tubing. LD all non-yellow band joints. If fill is tagged:
 - a. Above 4,000' proceed to step #7.
 - b. Below 4,000' skip to step #9.

Strap pipe out of the hole to verify depths. Send scan report to lgbi@chevron.com.

- > Caliper elevators and tubular EACH DAY prior to handling tubing/rods/tools. Note in JSA when and what items are callipered within the task step that includes that work.
- 7. PU and RIH with 4-3/4" Milled Tooth (MT) Bit, 4 (3-1/2') drill collars on 2-7/8" 6.5# L-80 Workstring. RU power swivel and C/O to 4,000'. POOH with 2-7/8" WS and bit. LD bit and BHA.
 - Note: If circulation is not expected/achieved, notify Remedial Engineer to discuss C/O with bailer (proceed to step #8) or <u>utilize foam/air unit</u> (continue to supplemental procedure at end).
- 8. PU and RIH with 4-3/4" MT and Bulldog bailer on 2-7/8" 6.5# L-80 WS. Clean out to 4,000'. POOH with 2-7/8" WS and bit. LD bit and BHA.
- Expect trapped pressure inside tubing while breaking connections during bailing operations, discuss on JSA and mitigate hazard. Use mudbucket (remove bottom seals if applicable) while breaking connections.

- 9. Contact sonic tool representative to be on-site during job. PU and RIH with Sonic Hammer tool and 2-7/8" Workstring to 3,940' or enough depth to cover the bottom perforations (@ 3,937') with a whole stand. Hydrotest tubing to 6,000 psi. Stand back tubing to top perforations (@ 3,624'). Install stripper head and stand pipe with sufficient treating line to move tools vertically ~ 60'. RU pressure gauges to allow monitoring of tubing and casing pressures during job.
- 10. MI and RU Petroplex equipment. Titrate acids and verify concentration (HCI ± 1.5%). Treat all intervals from 3,620' to 3,940' with 30 bbls of 8.6 ppg cut brine water per interval (see Table 1). Pump down Sonic Hammer tool at 5 BPM while reciprocating tool across intervals. Do not exceed 5,000 psi tubing pressure. Leave annulus open in circulation mode while treating intervals with brine water.

Perf Intervals for Acid			
Interval	Depth	Net Feet	Acid Volume
(#)		(ft)	(gal)
1	3,620' - 3,645'	25	500
2	3,675' - 3,715'	40	1,000
3	3,740' - 3,795'	55	1,000
4	3,795' - 3,830'	35	1,000
5	3,830' - 3,875'	45	1,000
6	3,875' - 3,905'	30	1,000
7	3,905' - 3,940'	35	1,000
Total		265	6,500

Table 1

- 11. Follow the brine water wash with 6,500 gals 15% NEFE HCI of total acid for all intervals. Spot 3 bbls of acid outside tubing, shut in casing, pump 500 gals of acid @ 5 BPM over first treating interval from 3,620' 3,645', monitor casing pressure not exceeding 500 psi on backside. Flush tubing with brine water after every acidizing interval, make a connection and continue with remaining interval. **Refer to Table 1**.
- 12. Shut in well for 1 hr to allow time for acid to spend. Monitor and bleed off excess pressure at surface if necessary to keep casing pressure below 500 psi.
- 13. Scale squeeze well with a total of 230 bbls 8.6 ppg brine water mixed with 6 drums (330 gallons)
 Baker SCW-358 Scale Inhibitor Chemical. Pump down Sonic Hammer tool at a max rate of 5 BPM.
 Start from lowest interval of 3,940' 3,905' and continue moving uphole per pump schedule (see
 Table 2). Ensure top of tubing is flushed with brine water before making a connection.

	Scale Squeeze Rump Schedule					
	Step .	Interval	Max Rate	Volume Brine	Volume Scale Chem.	Cum Volume
		(ft)	(BPM)	(bbl)	(gal)	(bbl)
·1	Pump Chemical/brine while moving from	3940' - 3905'	5	11	45	12
2	Pump Brine while moving from	3940' - 3905'	5	19		31
3	Move pipe to next interval of	3905' - 3875'				31
4	Pump Brine while moving from	3905' - 3875'	5	9		40
5	Pump Chemical/brine while moving from	3905' - 3875'	5	11	45	52
6	Pump Brine while moving from	3905' - 3875'	5	10		, 62
7	Move pipe to next interval of	3875' - 3830'				62
8	Pump Brine while moving from	3875' - 3830'	5	9		71
9	Pump Chemical/brine while moving from	3875' - 3830'	5	13	55	85
10	Pump Brine while moving from	3875' - 3830'	ͺ5	. 8		. 93
11	Move pipe to next interval of	3830' - 3795'				93
12	Pump Brine while moving from	3830' - 3795'	5	9		102
13	Pump Chemical/brine while moving from	3830' - 3795'	5	12	50	116
14	Pump Brine while moving from	3830' - 3795'	5	_. 9		125
15	Move pipe to next interval of	3795' - 3740'				125
16	Pump Brine while moving from	3795' - 3740'	5	9		134
17	Pump Chemical/brine while moving from	3795' - 3740'	5	15	65	150
18	Pump Brine while moving from	3795' - 3740'	.5	6		156
19	Move pipe to next interval of	3715' - 3675'				156
20	Pump Brine while moving from	3715' - 3675'	5	9		165
21	Pump Chemical/brine while moving from	3715' - 3675'	5	11	45	177
22	Pump Brine while moving from	3715' - 3675'	5	10		187
23	Move pipe to next interval of	3645' - 3620'				187
24	Pump Brine while moving from	3645' - 3620'	5	9		196
25	Pump Chemical/brine while moving from	3645' - 3620'	5	6	25	203
26	Pump Brine while moving from	3645' - 3620'	5	35		238

Table 2

- 14. PU workstring to higher than top perforations. Displace tubing volume with 8.6 ppg cut brine water. Do not exceed 500 psi casing pressure or 5 BPM while pumping scale squeeze or casing flush. Release Petroplex.
- 15. TOH and LD 2-7/8" WS and Sonic Hammer tool.
- 16. RIH with 2-7/8" production tubing and hydrotest to 6,000 psi. ND BOP, set TAC, NU WH. RIH with rods and pump per ALCR's recommendation/Rodstar design. Hang well on.
- 17. RD and release Workover unit. Turn well over to production.

FOAM / AIR CLEANOUT PROCEDURE

- This procedure is an addition to the original procedure.
 - Install flowback manifold with two chokes. All components on flowback manifold must be rated to at least 5,000 psi. If possible, flowback manifold components should be hydrotested before delivery. Hardline pipes from 2" casing valve to manifold to half pit with gas buster.
 - 2. Install flowback tank downwind from rig.
 - 3. Position Air unit upwind from Rig next to water tanks. Have vacuum truck on standby to empty halfpit. (if needed)
 - 4. RIH with 4-3/4" MT bit, 4 (3-1/2") drill collars on 2-7/8" 6.5# L-80 WS.
 - 5. NU stripper head with <u>NO Outlets</u> (Check stripper cap for thread type course threads preferred). Stripper head to be stump tested to 1,000 psi before being delivered to rig. Check chart or test at rig.
 - 6. RU foam air unit. Make quality foam on surface before going down hole with foam/air. Install flapper float at surface before beginning to pump. Break circulation with foam/air. Evacuate fluid from well.

Pump high quality foam at all times. Do not pump dry air at any time. Fluid injection rates will generally be above 12 gallons per minute.

Whenever there is pressure on the stripper head, have a dedicated person continuously monitor pressure at choke manifold and have a dedicated person at accumulator ready to close annular BOP in case stripper leaks. Do not allow pressure on stripper head to exceed 500 psi. If pressure cannot be controlled below 500 psi, stop pumping, close BOP and bleed off pressure.

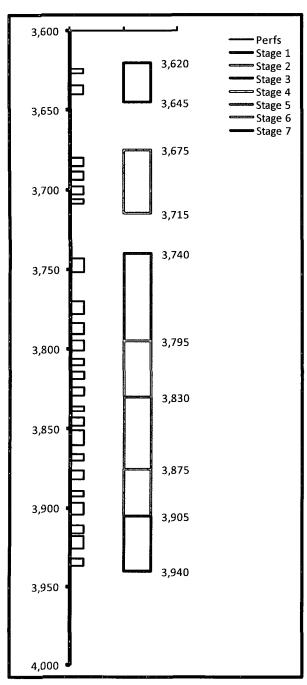
- 7. Clean out fill to 4,259' with low RPM's rotation and circulation, always keep pipe moving. Short trips can be beneficial to hole cleaning. Circulate well clean for at least 1 hour at the end of the day and pull up above the perforations before shut down for night. If the foam/air unit goes down, pull above the perforations.
- 8. When tripping out of hole, have special float bleed off tool available to relieve trapped pressure below float.

Ensure that high quality, stiff foam is pumped while circulating the fill. Stiff foam is required to prevent segregation while circulating. Monitor flow and pressures carefully when cleaning out.

Before rigging up power swivel to rotate, carefully inspect Kelly hose to ensure that it is in good condition. Ensure that swivel packing is in good condition.

Continue on with original procedure for completion.

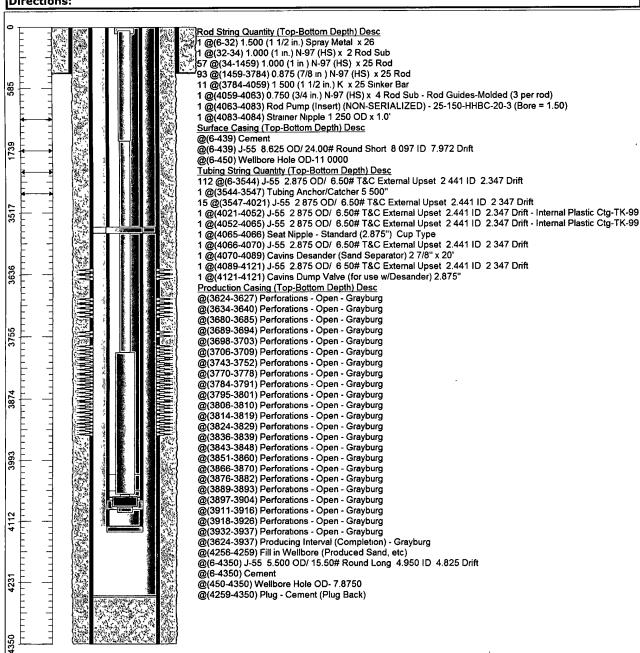
VM Henderson #22



		Perfs Dețail		
Тор	Bottom	Interval Length	Status	Reservoir
ft	ft	ft	45	
3,624	3,627	3	Open	Grayburg
3,634	3,640	6	Open	Grayburg
3,680	3,685	5	Open	Grayburg
3,689	3,694	5	Open	Grayburg
3,698	3,703	5	Open	Grayburg
3,706	3,709	3	Open	Grayburg
3,743	3,752	9 .	Open	Grayburg
3,770	3,778	8	Open	Grayburg
3,784	3,791	7	Open	Grayburg
3,795	3,801	6	Open	Grayburg
3,806	3,810	4	Open	Grayburg
3,814	3,819	5	Open	Grayburg
3,824	3,829	5	Open	Grayburg
3,836	3,839	3	Open	Grayburg
3,843	3,848	5	Open .	Grayburg
3,851	3,860	9	Open	Grayburg
3,866	3,870	4	Open	Grayburg
3,876	3,882	6	Open	Grayburg ·
3,889	3,893	4	Open	Grayburg
3,897	3,904	7 ·	Open	Grayburg
3,911	3,916	5 ,	Open	Grayburg
3,918	3,926	8	Open	Grayburg
3,932	3,937	5	Open	Grayburg
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		0		
		0		
2.624	Total	437		
3,624	3,937	127		A STATE OF THE STATE OF

Chevron U.S.A. Inc. Wellbore Diagram: VMHENDERSON22G

Lease: OEU EUNICE FMT	Well No.: HENDERSON, V. M. 22G	Field: PENROSE SKELLY		
Location: 330FNL1310FEL	Sec.: N/A	Blk:	Survey: N/A	
County: Lea St.: New Mexico	Refno: JA3646	API: 3002537835	Cost Center: UCU493800	
Section: 30	Township: 021 S		Range: 037 E	
Current Status: ACTIVE		Dead Man Anchors Test Date: 05/15/2006		
Directions:				



Ground Elevation (MSL):: 3502.00	Spud Date: 05/08/2006	Compl. Date: 05/19/2006
Well Depth Datum:: CSI0000N	Elevation (MSL):: 0.00	Correction Factor: 6.00
Last Updated by: bujq	Date: 06/25/2012	